

IN THE CLAIMS:

1. (Currently Amended) A communication apparatus for communicating with a plurality of stations and executing regulation control at a time of congestion, comprising:

congestion monitoring means for monitoring a congestion state, setting a congestion level and determining whether or not to perform regulation based on said congestion level;

wherein said congestion monitoring means uses at least one of a processor occupancy rate and a response time with respect to a received signal as an index at a time of setting said congestion level.

traffic measuring means for measuring a traffic intensity;

wherein said traffic measuring means measures the number of signals received from the stations as a traffic intensity.

traffic comparison means for comparing said traffic intensity with a preset traffic-regulation start traffic intensity when it is determined that regulation is to be performed; and

regulation control means for performing traffic regulation control when a comparison result shows that said traffic intensity is equal to or greater than said traffic-regulation start traffic intensity, and performing regulation control on a maintenance and operation process when said traffic intensity is smaller than said traffic-regulation start traffic intensity;

wherein said regulation control means sends an alarm to a maintenance terminal to stop the maintenance and operation process, when the traffic regulation control is performed.

2. (Cancelled)

3. (Original) The communication apparatus according to claim 1, wherein said regulation control means executes said traffic regulation control by changing stations to be regulated and a number of said stations to be regulated.

4. (Original) The communication apparatus according to claim 1, wherein said regulation control means counts a number of signals received from a station to be regulated and computes a ratio of a signal to be regulated from a count value, whereby said regulation control means executes said traffic regulation control with a same congestion level in accordance with said ratio.

5. (Currently Amended) A mobile communication system for communicating with a plurality of stations and executing regulation control at a time of congestion, comprising:
a plurality of mobile communication exchanges for performing exchange control on signals with respect to radio stations; and

a mobile communication control station including a communication apparatus comprising congestion monitoring means for monitoring a congestion state, setting a congestion level and determining whether or not to perform regulation based on said congestion level, traffic measuring means for measuring a number of signals received from said mobile communication exchanges as a traffic intensity, traffic comparison means for comparing said traffic intensity with a preset traffic-regulation start traffic intensity when it is determined that regulation is to be performed, and regulation control means for performing traffic regulation control when a comparison result shows that said traffic intensity is equal to or greater than said traffic-regulation start traffic intensity, and performing regulation control on a maintenance and operation process when said traffic intensity is smaller than said traffic-regulation start traffic intensity.

wherein said congestion monitoring means uses at least one of a processor occupancy rate and a response time with respect to a received signal as an index at a time of setting said congestion level,

and wherein said traffic measuring means measures the number of signals received from the stations as a traffic intensity,

and wherein said regulation control means sends an alarm to a maintenance terminal to stop the maintenance and operation process, when the traffic regulation control is performed.

6. (Cancelled)

7. (Original) The mobile communication system according to claim 5, wherein said regulation control means executes said traffic regulation control by changing mobile communication exchanges to be regulated and a number of said mobile communication exchanges to be regulated.

8. (Original) The mobile communication system according to claim 5, wherein said regulation control means counts a number of signals received from a mobile communication exchange to be regulated and computes a ratio of a signal to be regulated from a count value, whereby said regulation control means executes said traffic regulation control with a same congestion level in accordance with said ratio.

9. (Cancelled)

10. Currently Amended) A client/server system for communicating with a plurality of clients and executing regulation control at a time of congestion, comprising:

a plurality of client units for requesting services;

a server unit comprising congestion monitoring means for monitoring a congestion state, setting a congestion level and determining whether or not to perform regulation based on said

congestion level, traffic measuring means for measuring a number of signals received from said client units as a traffic intensity, traffic comparison means for comparing said traffic intensity with a present traffic-regulation start traffic intensity when it is determined that regulation is to be performed, and regulation control means for performing traffic regulation control when a comparison result shows that said traffic intensity is equal to or greater than said traffic-regulation start traffic intensity, and performing regulation control on a maintenance and operation process when said traffic intensity is smaller than said traffic-regulation start traffic intensity;

wherein said congestion monitoring means uses at least one of a processor occupancy rate and a response time with respect to a received signal as an index at a time of setting said congestion level.

and wherein said traffic measuring means measures the number of signals received from the stations as a traffic intensity.

and wherein said regulation control means sends an alarm to a maintenance terminal to stop the maintenance and operation process, when the traffic regulation control is performed.

11. (Cancelled)

12. (Original) The client/server system according to claim 10, wherein said regulation control means executes said traffic regulation control by changing client units to be regulated and a number of said client units to be regulated.

13. (Original) The client/server system according to claim 10, wherein said regulation control means counts a number of signals received from a client unit to be regulated and

computes a ratio of a signal to be regulated from a count value, whereby said regulation control means executes said traffic regulation control with a same congestion level in accordance with said ratio.

14.-18 (Cancelled)

19. (New) The communication apparatus according to claim 3, wherein said regulation control means includes a regulation pattern selection table which is comprised of patterns P1 to Pn set every cycle C1 to Cn of the processor and a order-of-regulation-targets table which is comprised of patterns P1 to Pn with identification number of the stations set in each pattern,

and wherein if the cycle number of the processor is Ca ($1 \leq a \leq n$) while the traffic regulation control is performed, said regulation control means reads the pattern Pa of the same number as the cycle Ca of the processor from the regulation pattern selection table and selects the top N stations in the selected pattern by using the order-of-regulation-targets table, when the number of stations to be regulated is identified "N".

20. (New) The mobile communication system according to claim 7, wherein said regulation control means includes a regulation pattern selection table which is comprised of patterns P1 to Pn set every cycle C1 to Cn of the processor and a order-of-regulation-targets table which is comprised of patterns P1 to Pn with identification number of the stations set in each pattern,

and wherein if the cycle number of the processor is Ca ($1 \leq a \leq n$) while the traffic regulation control is performed, said regulation control means reads the pattern Pa of the same number as the cycle Ca of the processor from the regulation pattern selection table and selects the top N stations in the selected pattern by using the order-of-regulation-targets table, when the number of stations to be regulated is identified "N".

21. (New) The client/server system according to claim 12, wherein said regulation control means includes a regulation pattern selection table which is comprised of patterns P1 to Pn set every cycle C1 to Cn of the processor and a order-of-regulation-targets table which is comprised of patterns P1 to Pn with identification number of the stations set in each pattern,

and wherein if the cycle number of the processor is Ca ($1 \leq a \leq n$) while the traffic regulation control is performed, said regulation control means reads the pattern Pa of the same number as the cycle Ca of the processor from the regulation pattern selection table and selects the top N stations in the selected pattern by using the order-of-regulation-targets table, when the number of stations to be regulated is identified "N".